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## (54) PRODUCTION OF GLASS CERAMIC PRODUCT

## (57) Abstract:

PURPOSE: To produce the title glass ceramic product having excellent resistance to wear and impact by forming glass of SiO2-Al2O3-ZnO-TiO2 and ZrO2, etc., having a specified composition, and reheating the glass while controlling the temp. increasing rate at the low-temp. region.

CONSTITUTION: Glass consisting, by weight, of 30W65% SiO2, 5W25% Al2O3, 10.5W40% ZnO, 2W15% TiO2 and ZrO2, 0W20% MgO, 0W15%  $\geq$ 1 kind among CaO, SrO, and BaO, 0W5% B2O3, 0W10%  $\geq$ 1 kind among La2O3, Y2O3, Cd2O3, Ta2O5, Nb2O5, and WO3, 0W5% P2O5, 0W5% F, 0W2% SnO2, and 0W1% As2O3 and Sb2O3 is melted and then quenched while being formed. The glass is reheated while controlling the temp. increasing rate at the low-temp. region for forming nuclei to  $\geq$ 2.5°C/min, and further kept at a high-temp. region to form crystal nuclei and then to form crystallites. No trouble such as cracking is caused by this method, and a product having excellent resistance to wear and impact can be obtained.

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